

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

A

ACC AAC TGT TGC GCA GGC ACG AAG GGT	TGT AAG TAC TTC AGT GAT GAT	402
Thr Asn Cys Cys Ala Gly Thr Lys GlY	Cys Lys Tyr Phe Ser Asp Asp	
90	95	100
GGAA ACT TTT GTT GAA GGA GAG TCT GAT CCT AGA AAT CCA AAG GCT		450
Gly Thr Phe Val Cys Glu Gly Glu Ser Asp Pro Arg Asn Pro Lys Ala		
105	110	115
TGT CCT CGG AAT TGC GAT CCA AGA ATT GCC TAT GGG ATT TGC CCA CTT		498
Cys Pro Arg Asn Cys Asp Pro Arg Ile Ala Tyr Gly Ile Cys Pro Leu		
120	125	130

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m

Figure 1 b

APPROVED BY DRAFTSMAN	O.G. FIG.
	CLASS SUBCLASS

B

AAG	AAG	GGT	TGT	AAG	TAC	TTT	AGT	GAT	GGA	ACT	TTT	GTT	TGT	GAA	594
Lys	Lys	Gly	Cys	Lys	Tyr	Phe	Ser	Asp	Pro	GLY	Thr	Phe	Val	Cys	Glu
				155				160					165		
GGA	GAG	TCT	GAT	CCT	AAA	AAT	CCA	AAG	GCC	TGT	CCT	CGG	AAT	TGT	642
Gly	Gly	Ser	Asp	Pro	Lys	Asn	Pro	Lys	Ala	Cys	Pro	<u>Arg</u>	<u>Asn</u>	Cys	Asp
				170				175					180		
GGA	AGA	ATT	GCC	TAT	GGG	ATT	TGC	CCA	CTT	TCA	GAA	GAA	AAG	AAT	690
Gly	Arg	Ile	Ala	Tyr	Gly	Ile	Cys	Pro	Leu	Ser	Glu	Glu	Lys	Lys	Asn
				185				190				195			
GAT	CGG	ATA	TGC	ACC	AAC	TGC	TGC	GCA	GGC	AAA	AAG	GGT	TGT	AAG	TAC
Asp	Arg	Ile	Cys	Thr	Asn	Cys	Cys	Ala	Gly	Lys	Lys	Gly	Cys	Lys	Tyr
				200				205				210			

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C

TTT	AGT	GAT	GGA	ACT	TTT	GTT	GAA	GGA	GAG	TCT	GAT	CCT	AAA	786	
Phe	Ser	Asp	Asp	Gly	Thr	Phe	Val	Cys	Glu	Gly	Glu	Ser	Asp	Pro	Lys
					220				225				230		
AAT	CCA	AAG	GCT	TGT	CCT	CGG	AAT	TGT	GAT	GGA	AGA	ATT	GCC	TAT	GGG
Asn	Pro	Lys	Ala	Cys	Pro	<u>Arg</u>	<u>Asn</u>	Cys	Asp	Gly	Arg	Ile	Ala	Tyr	Gly
				235				240				245			

Figure 1c

APPROVED	O.G. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

C

ATT	TGC	CCA	CTT	TCA	GAA	AAG	AAG	AAT	GAT	CGG	ATA	TGC	ACA	AAC	882
Ile	Cys	Pro	Leu	Ser	Glu	Glu	Lys	Lys	Asn	Arg	Ile	Cys	Thr	Asn	
															255

TGT	TGC	GCA	GCC	AAA	AAG	GGC	TGT	AAG	TAC	TTT	AGT	GAT	GGA	ACT	930
Cys	Cys	Ala	Gly	Gly	Lys	Gly	Cys	Lys	Tyr	Phe	Ser	Asp	Asp	Gly	
															265

TTT	GTT	TGT	GAA	GGA	GAG	TCT	GAT	CCT	AGA	AAT	CCA	AAG	GCC	TGT	CCT	978
Phe	Val	Cys	Glu	Gly	Glu	Ser	Asp	Pro	Arg	Asn	Pro	Lys	Ala	Cys	Pro	
																280

CGG	AAT	TGT	GAT	GGA	AGA	ATT	GCC	TAT	GGA	ATT	TGC	CCA	CTT	TCA	GAA	1026
<u>Arg</u>	<u>Asn</u>	Cys	Asp	Gly	Arg	Ile	Ala	Tyr	Gly	Ile	Cys	Pro	Leu	Ser	Glu	
																295

GAA	AAG	AAT	GAT	CGG	ATA	TGC	ACC	AAT	TGT	TGC	GCA	GGC	AAG	AAG	1074
Glu	Lys	Lys	Asn	Asp	Arg	Ile	Cys	Thr	Asn	Cys	Cys	Ala	Gly	Lys	
															315

GGC	TGT	AAG	TAC	TTT	AGT	GAT	GGA	ACT	TTT	ATT	TGT	GAA	GGA	GAA	1122
<u>Gly</u>	Cys	Lys	Tyr	Phe	Ser	Asp	Asp	Gly	Thr	Phe	Ile	Cys	Glu	Gly	
															330

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C

D

Figure 1d

APPROVED BY CRAFTSMAN	O.G. FIG.
	CLASS SUBCLASS

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D

TCT GAA TAT GCC AGC AAA GTG GAT GAA TAT GTT GGT GAA GTG GAG AAT
Aer Glu Tyr Ala Ser Lys Val Asp Glu Tyr Val Gly Glu Val Glu Asn 1170
345 350 355

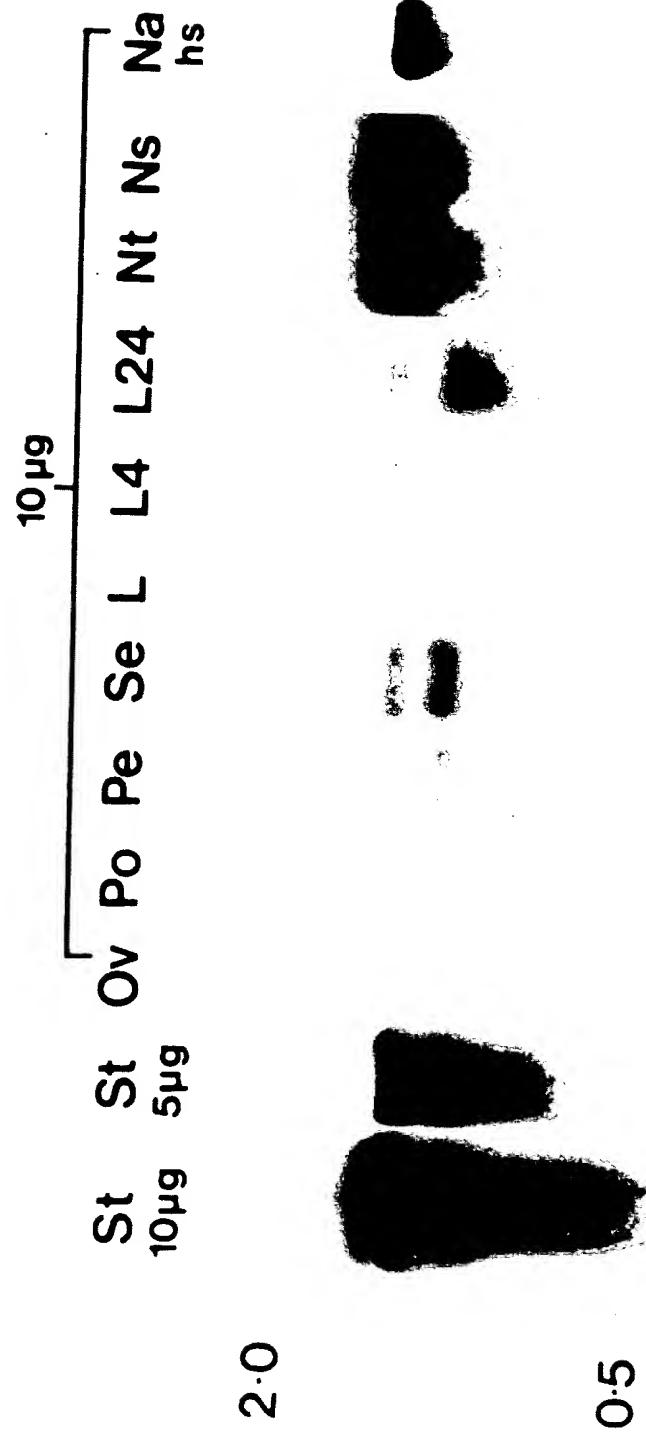
GAT CTC CAG AAG TCT AAG GTT GCT GTT TCC TAAGTCCTAA CTAATAATAT 1220
Asp Leu Gln Lys Ser Lys Val Ala Val Ser 360 365

GTAGTCTATG TATGAAACAA AGGCATGCCA ATATGCTCTG TCTTGCCTGT AATCTGTAAAT 1280
ATGGTAGTGG AGCTTTCCA CTGCCTGTTT AATAAGAAAT GGAGCACTAG TTGTGTTTAG 1340
TTAAAAAAA AAAAAAAA 1360

Figure 1e

Figure 2

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096342562 - 036762

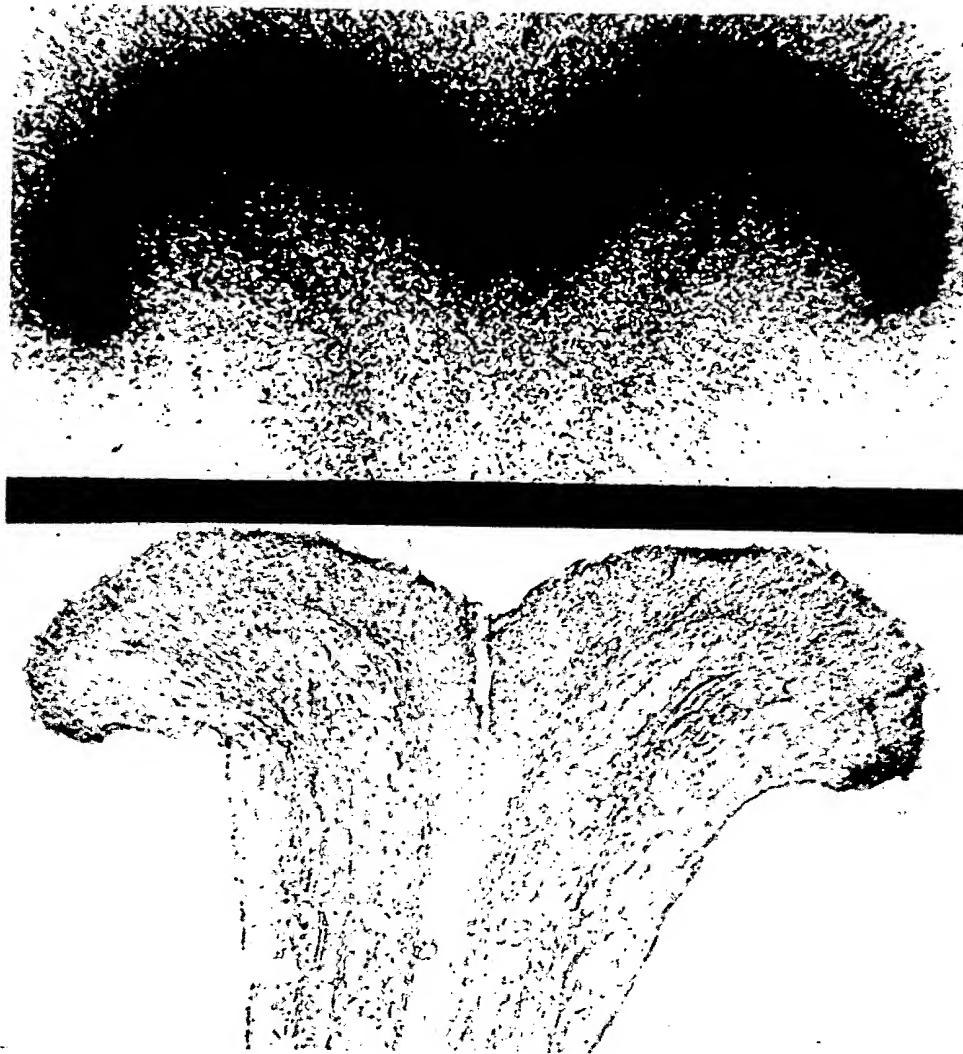


Figure 3

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EcoRI HindIII

09842562 - 0303762

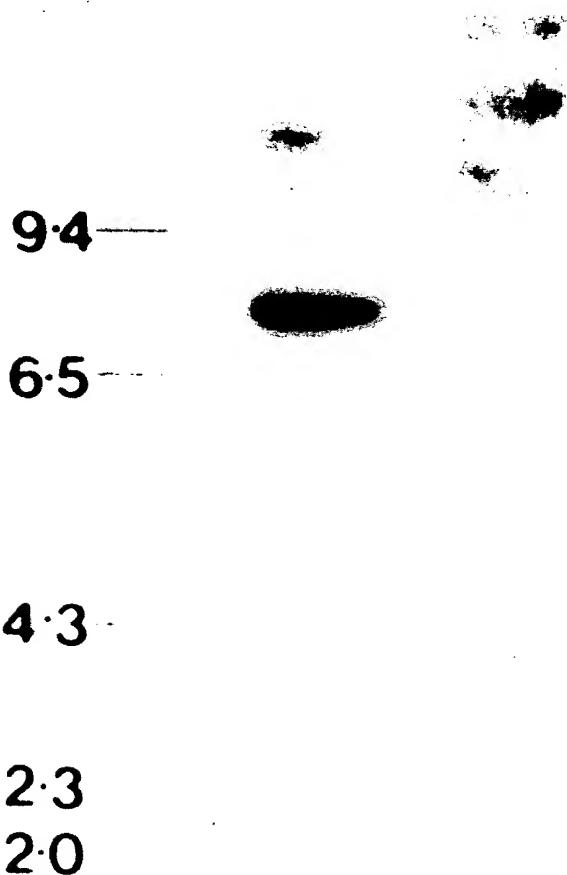


Figure 4

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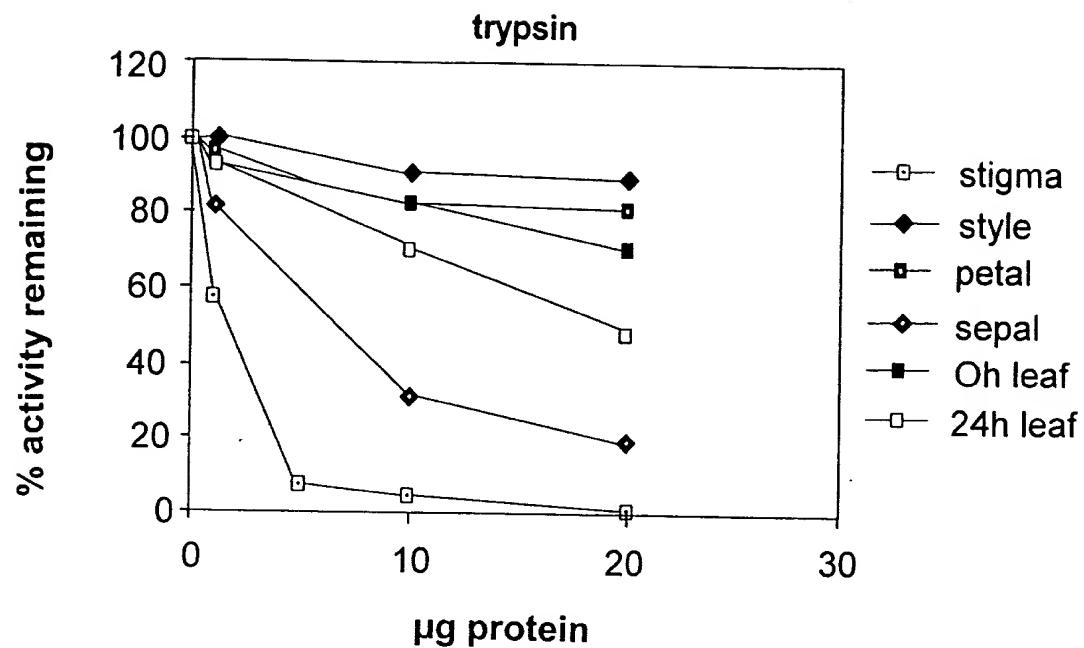


Figure 5a

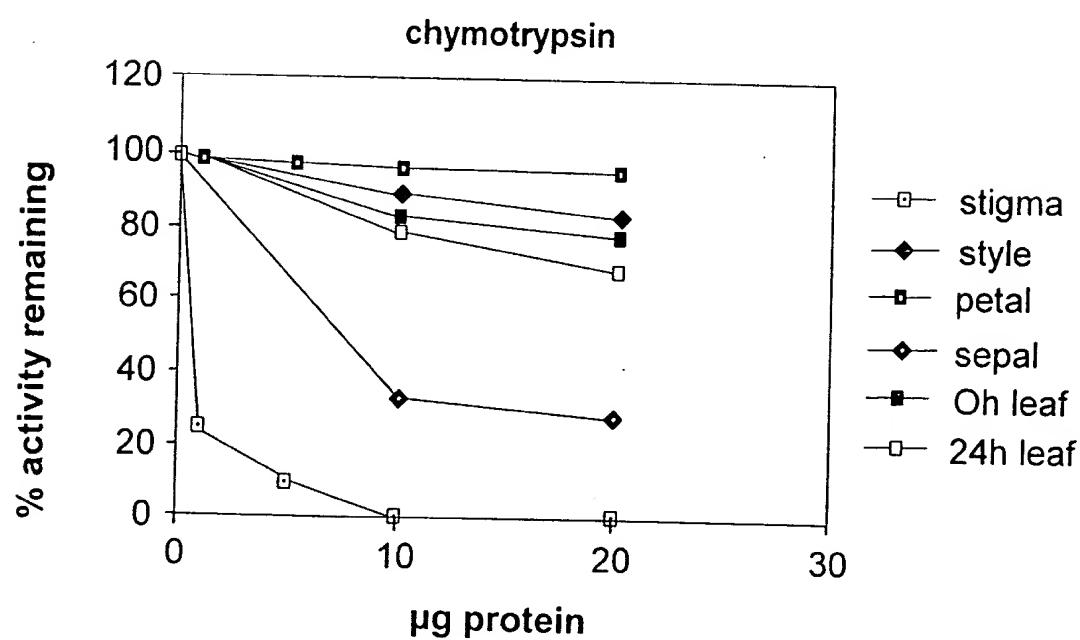


Figure 5b

Figure 6a

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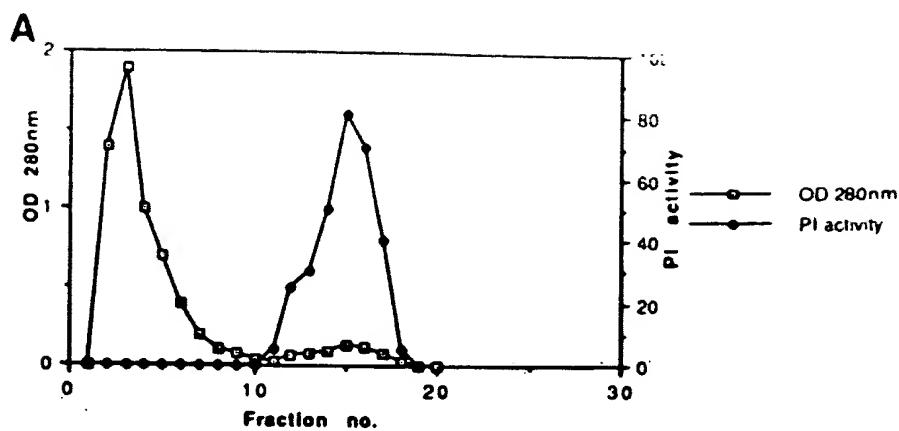


Figure 6b

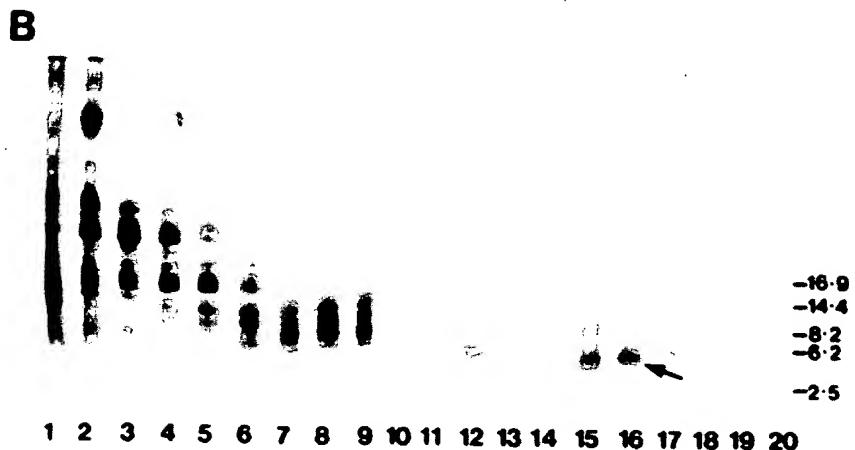
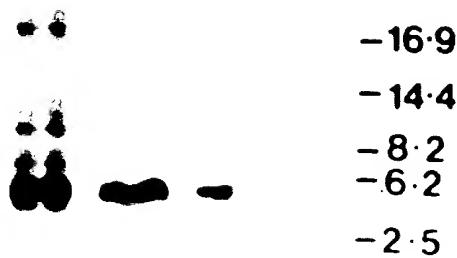
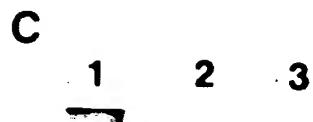


Figure 6c



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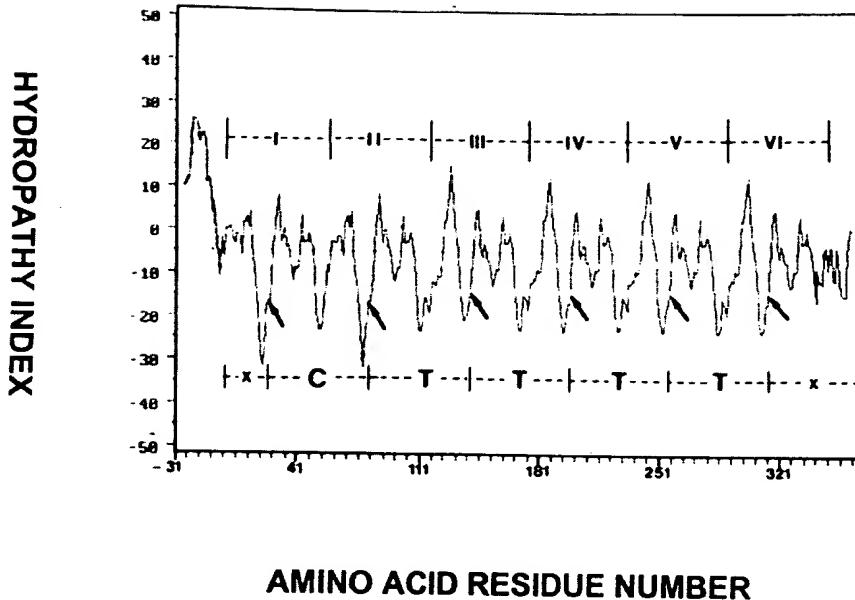
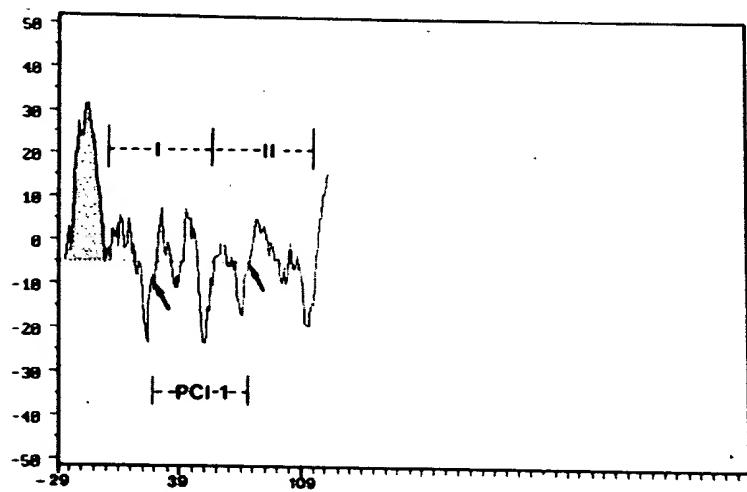


Figure 7a

0 9 8 4 2 5 6 2 - 0 3 6 7 0 2

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HYDROPATHY INDEX

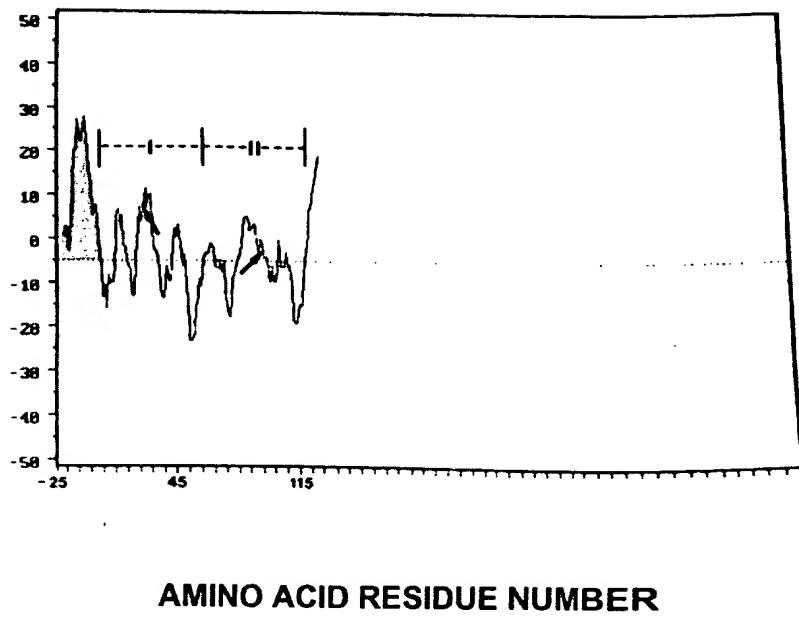


AMINO ACID RESIDUE NUMBER

Figure 7 b

396312502 0303260

HYDROPATHY INDEX



AMINO ACID RESIDUE NUMBER

Figure 7c

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Figure 8a



Figure 8b

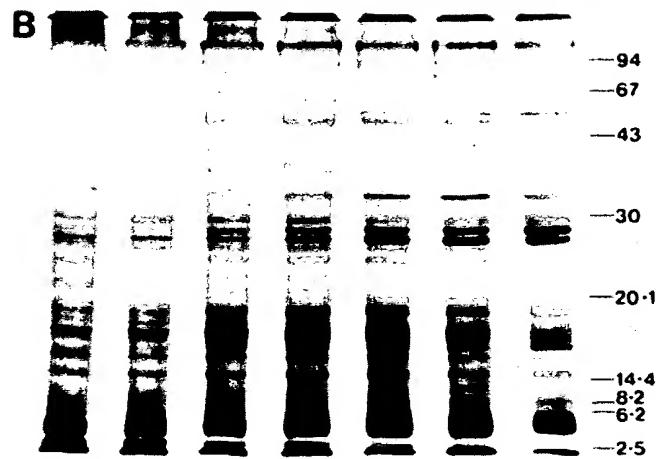
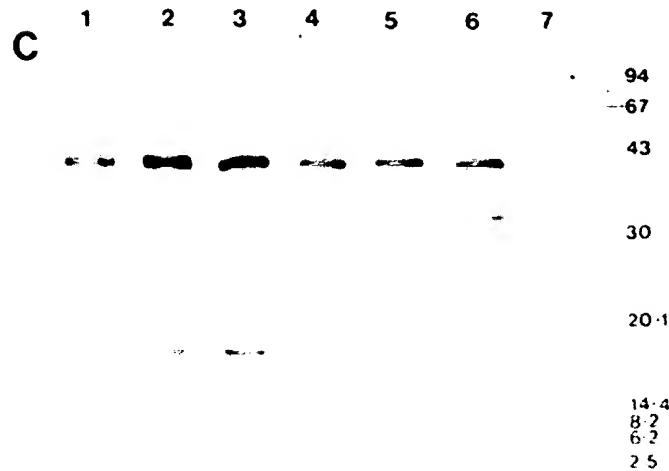


Figure 8c



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

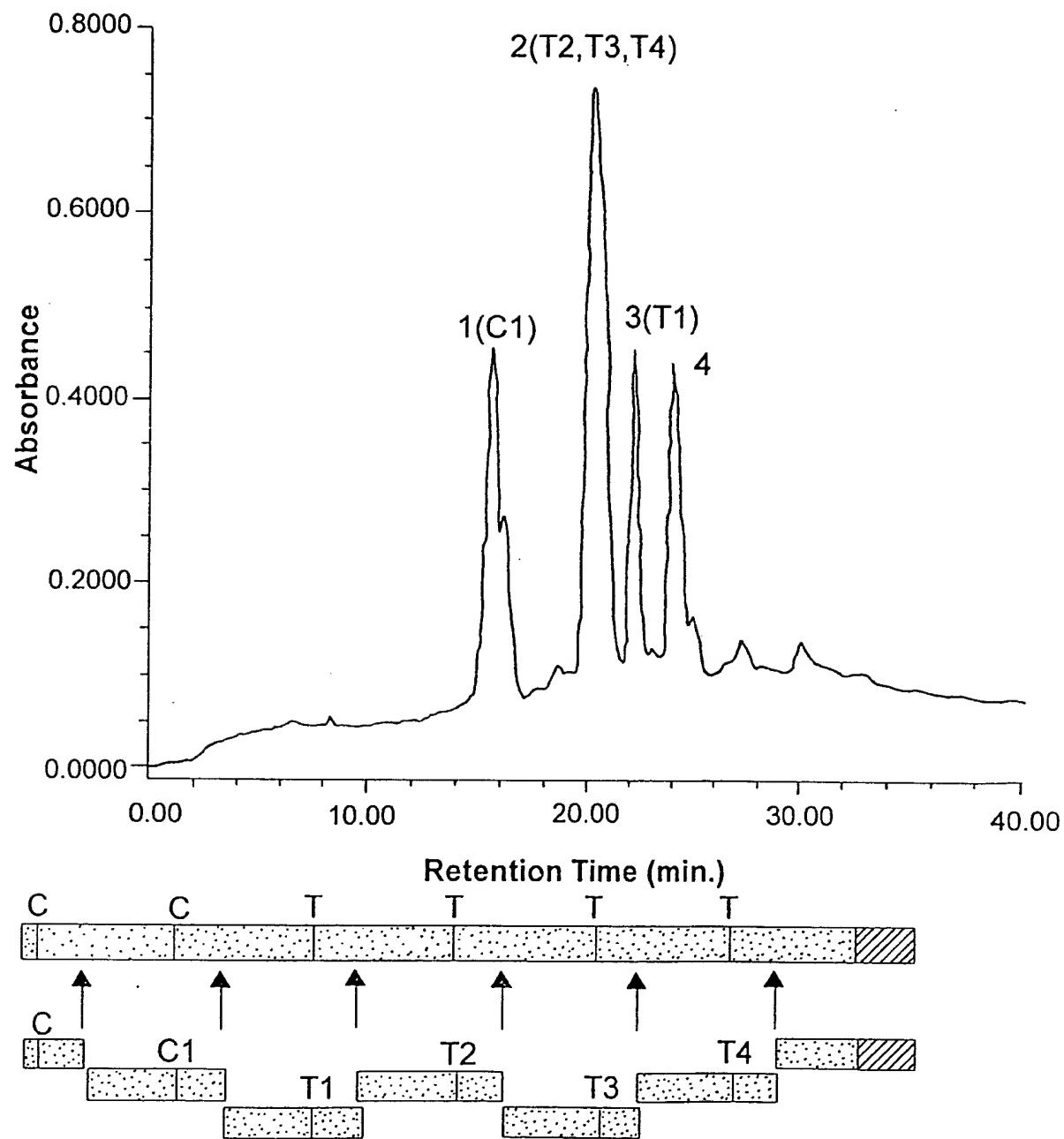


Figure 9a

C1 DRICTNCCAGTKGCKYFSDDGTFVCEGESDPRNPKACTLNCDPRIAYGVCPRS
 T1 DRICTNCCAGTKGCKYFSDDGTFVCEGESDPRNPKACPRNCDPRIAYGICPL
 T2 DRICTNCCAGKGKGCKYFSDDGTFVCEGESDPRNPKACPRNCDPKGRAYGICPLS
 T3 DRICTNCCAGKGKGCKYFSDDGTFVCEGESDPRNPKACPRNCDPKGRAYGICPLS
 T4 DRICTNCCAGKGKGCKYFSDDGTFVCEGESDPRNPKACPRNCDPKGRAYGICPLS
 1 10 20 30 40 50

Figure 9b

-10 1 10
 I C P (R or L) (S or A) E E K N D R I C T N C C A G (T or K) K G

Figure 10

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1 2

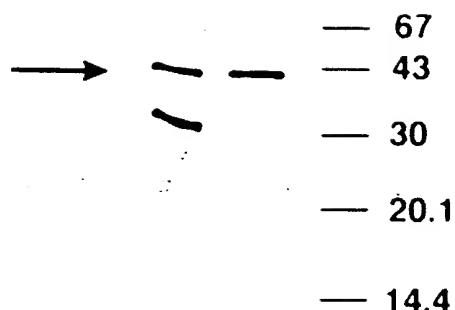


Figure 11a

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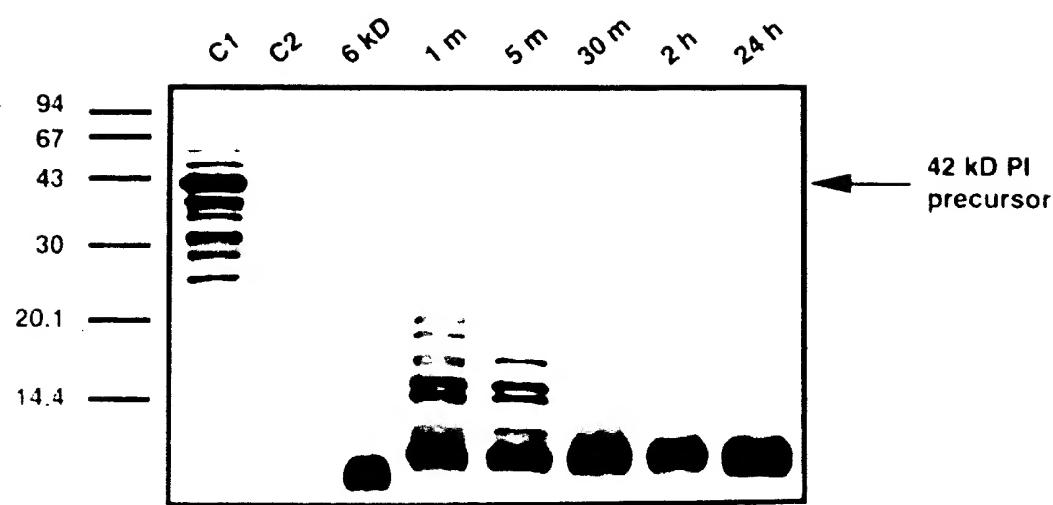


Figure 11 b

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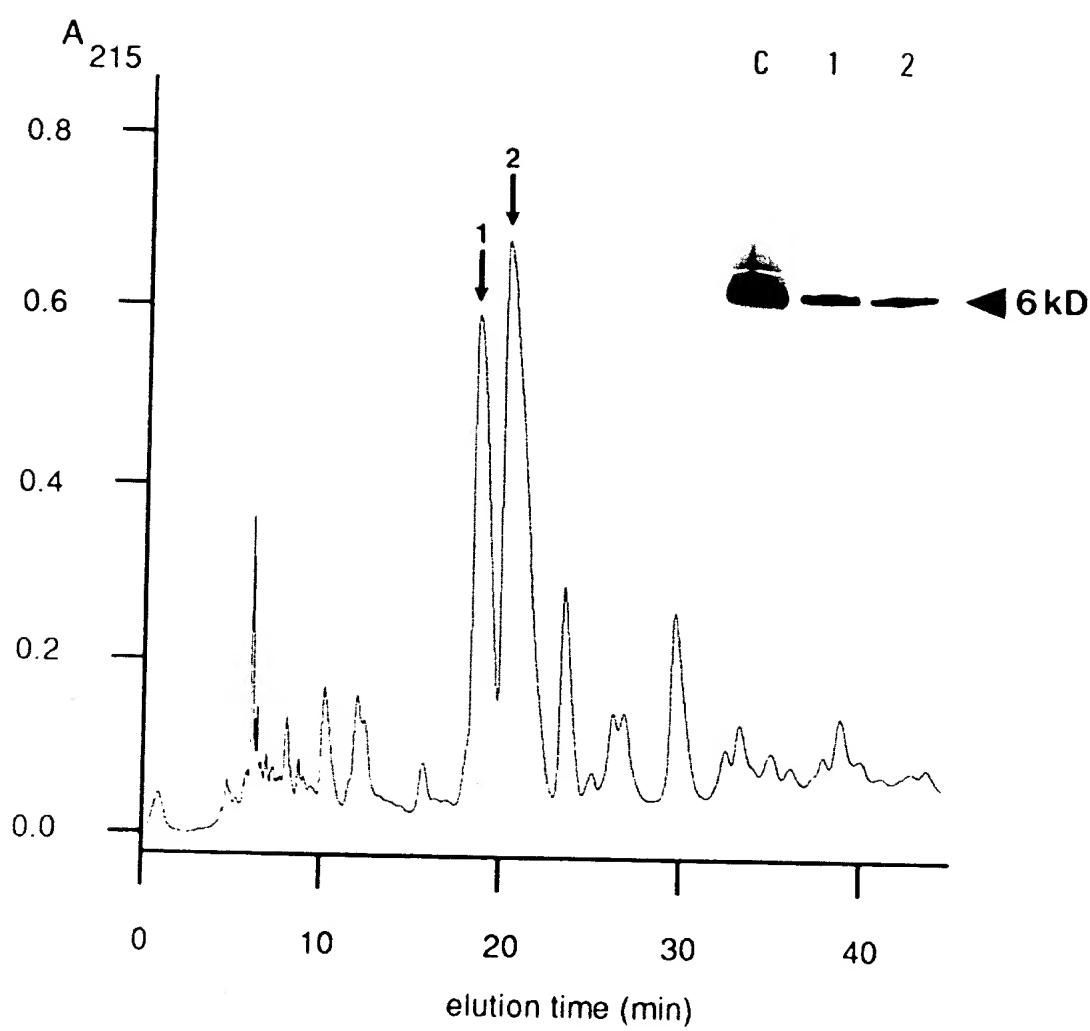


Figure 12

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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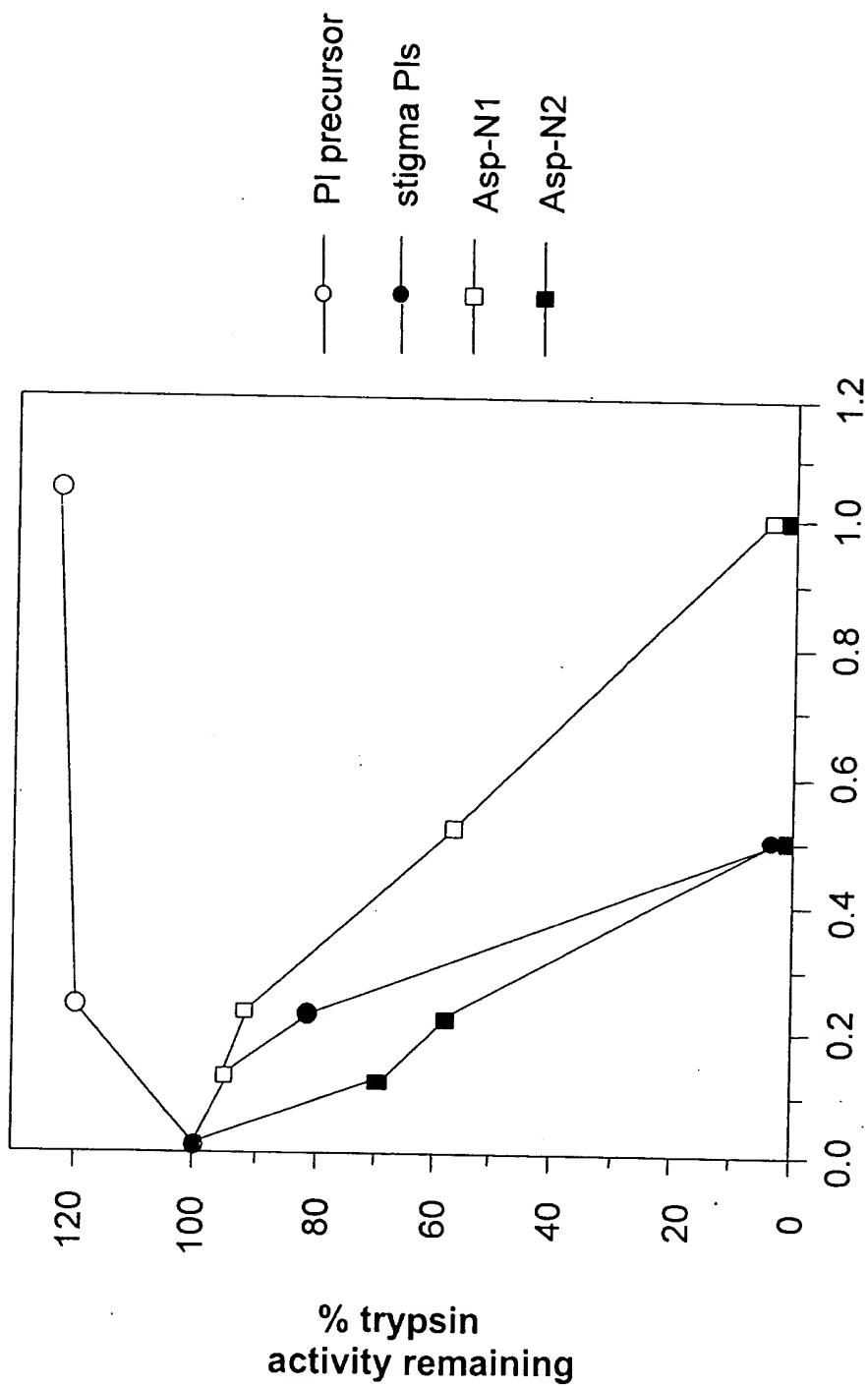


Figure 13a

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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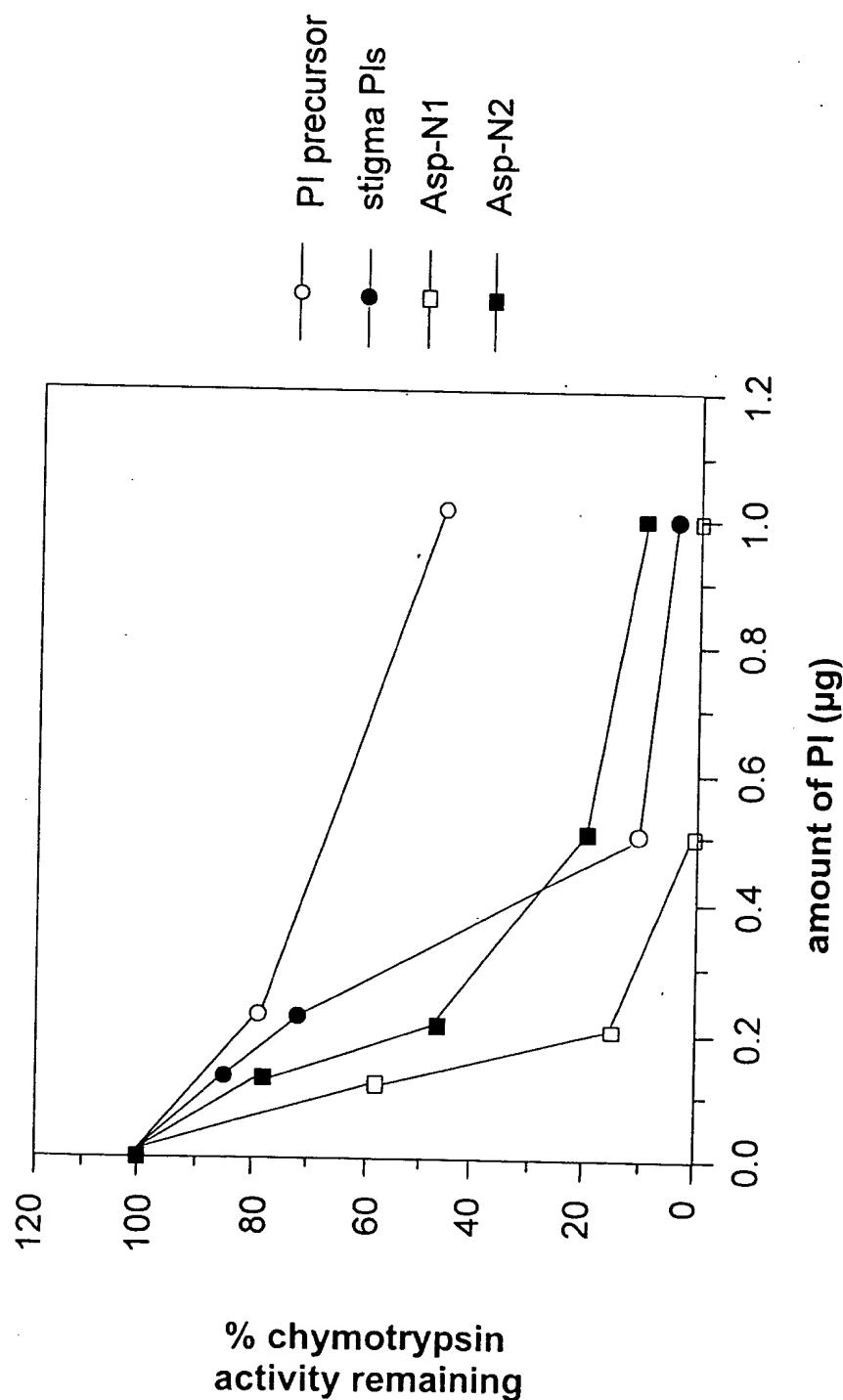


Figure 13b

APPROVED BY GRAFTSMAN	O.G. FiG.
	CLASS SUBCLASS

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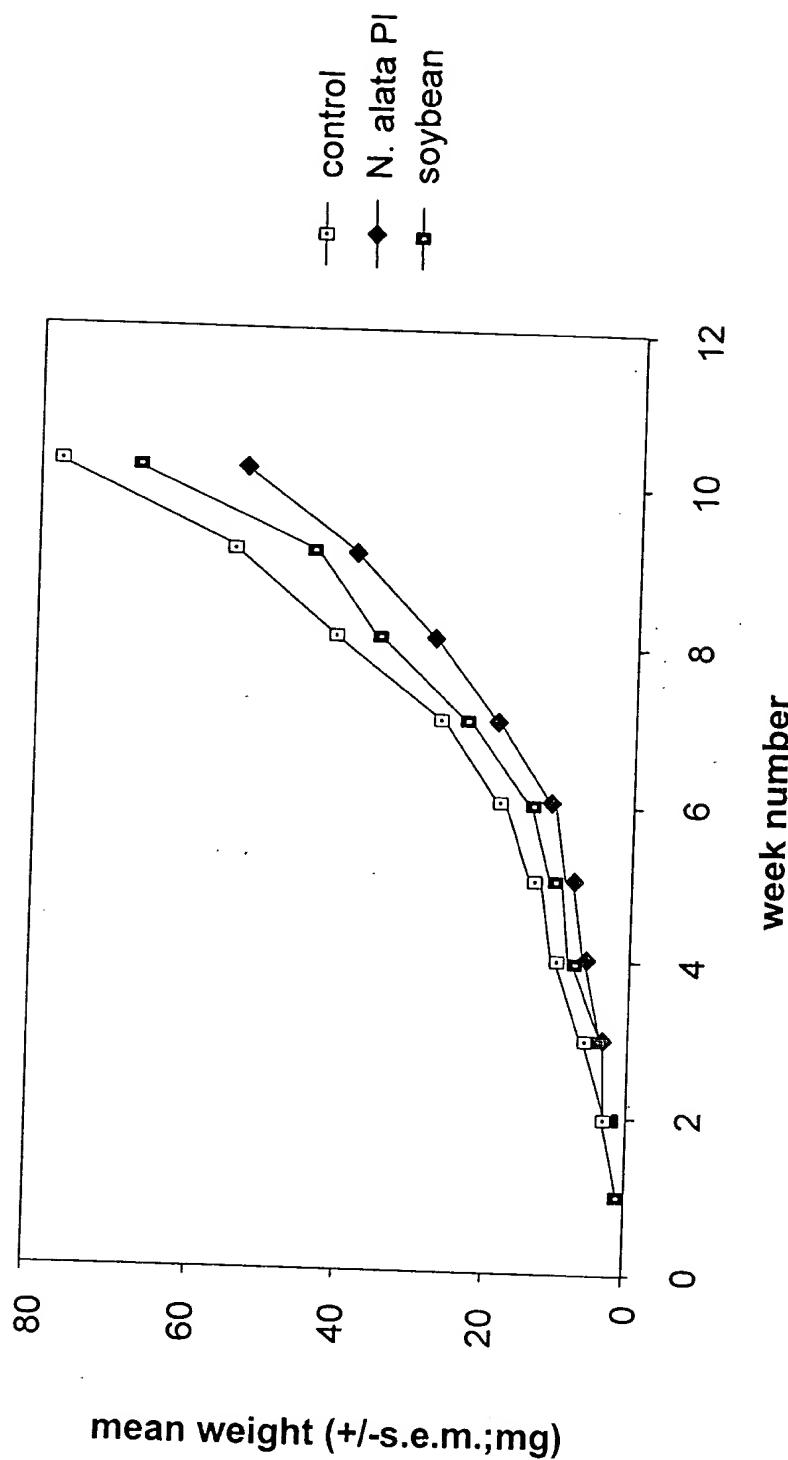


Figure 14